



Temporary Power Distribution
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Automatic Transfer Switches ATS3032Se-2 to ATS3800Se-2

Description

400V - 50Hz - 3 Phase + N Automatic Transfer Switches from 32A to 1000A.

(Single phase available by request.)

Adjustable phase failure / under voltage relay Monitoring of the primary, (duty), supply 1 only.

The ATS effects automatic connection of a secondary, (standby), supply 2 to a load, upon failure of the primary, (duty), supply 1. Automatically switching back when supply 1 is re-instated.

May be used on Mains – Generator, Mains – Mains, or Generator – Generator systems.

Switching by a pair of mechanically and electrically interlocked 4 pole contactors.

ATS class PC. Utilisation category AC-31B for resistive loads in line with BS EN 60947-6-1.

(For other categories, please refer to the office.)

Volt free changeover contact provided for a generator start signal.

20A Auxiliary supply for battery charging, jacket water heaters etc.

Supply available and on load indication. Test switch simulating a phase failure.

Timers to adjust switching between supplies.

Enclosure

Sheet steel enclosure with hinged door, with a textured powder coat to RAL7035 (Light Grey).

Complying with EN 62208, EN 61439-1-2. Protection to IP54 – IK10.

Suggested internal installation, if mounted externally we recommend fitting a top canopy with bottom entry cabling only. Power cabling directly onto contactors.

(Top canopies are available at additional cost. Please refer to the office.)

Design can be developed to meet individual specifications.

Dimensions

From 500mm H x 400mm W x 200mm D

To 1000mm H x 800mm W x 300mm D

Optional M8 wall fixing "ears"

Approximate Weight

From 9kgs to 110kgs.



ATS200



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ATS Technical Characteristics

Values given at 400V RMS – 50Hz – pf > 0.8

Specification Detail

Automatic Transfer Switch designed for use on a 400V 3 phase neutral and earth 50Hz supply.

Auxiliary supply and control voltages of 230V taken from Line 1 and Neutral.

Main, (duty), supply 1 takes priority. Should this main supply fail, a volt free change-over signal is given to start the secondary, (standby), supply 2. When the secondary supply voltage is available, and after an adjustable time delay, the ATS switches to this secondary supply.

Should the main supply be re-instated, and following a separate adjustable time delay, the ATS automatically switches back.

May be used on Mains – Generator, Mains – Mains, or Generator – Generator systems.

Comprising of a sheet steel wall mounted enclosure, (sized to suit), with top and bottom gland plates, finish RAL7035 and protected to IP54.

(A rain cover is available to raise the IP rating to IP65, this prevents use of the top gland-plate.)

A pair of four pole AC1 rated contactors complete with mechanical and electrical interlocks.

Three phase units switch L1, L2, L3 and N. Single phase units available by request.

Control components consist of,

A set of control circuit fuses.

Phase failure / reversal relay, monitoring the primary mains supply.

Under-voltage may be set from 300-440V, time delayed from 0.5-10 seconds.

Individual delay on timers, to delay secondary supply loading, and reinstatement of the mains.

Control relay, offering volt free secondary supply start signal.

(Close to start and Open to start options.)

Auxiliary: 230V power supply for battery charger or heater (up to 20A load).

Four indicator lamps are fitted to show,

- Supply 1 / Mains Available,
- Supply 1 / Mains on Load,
- Supply 2 / Generator Available,
- Supply 2 / Generator on Load.

A key operated two position switch is fitted for selection of

AUTO -ATS Panel in normal operation.

TEST - Simulation of main supply 1 phase failure

Installation and commissioning must be completed by competent personnel.

For alternative / specific control philosophies, please refer to the office.